

## CLAIMS

What is claimed is:

1           1.     In an e-commerce computer network system accessible via the Internet, a  
2 method of arranging delivery of an item ordered by a customer from a web browser linked  
3 to the Internet, the method comprising:

4                 receiving a first address from the customer via the web browser, wherein  
5 the address is received by the e-commerce computer network from the customer;

6                 locating a collection point for the delivery of the item, the collection point  
7 including a plurality of lockers, the plurality of lockers having a plurality of physical  
8 configurations, locating the collection point further including

9                 searching a collection point database, wherein the collection point  
10 database is remote from the e-commerce network and is coupled to the e-commerce  
11 network via the Internet;

12                 identifying the collection point in the collection point database;

13                 selecting a courier from a plurality of couriers listed in a courier database to  
14 deliver the item from a warehouse to the collection point.

1           2.     The method of claim 1, wherein the collection point has a second address,  
2 the second address being distinct from the first address.

1           3.     The method of claim 2, wherein the second address is within a pre-  
2 determined proximity of the first address.

1           4.     The method of claim 1, wherein selecting the courier further includes  
2 dynamically generating a plurality of prices for delivering the item to the collection point  
3 by the plurality of couriers.

1           5.     The method of claim 4, wherein the courier corresponds to a lowest price in  
2 the plurality of prices.

1           6.       The method of claim 1, wherein identifying the collection point further  
2 includes  
3           determining if the collection point includes a locker.

1           7.       The method of claim 1, wherein identifying the collection point further  
2 includes determining if a locker from the plurality of lockers in the collection point has a  
3 physical configuration capable of accommodating the item.

1           8.       The method of claim 1, wherein the collection point database includes a  
2 plurality of collection points, and the collection point is the most proximate of the plurality  
3 of collection points to the first address.

1           9.       The method of claim 1, wherein selecting the courier from the plurality of  
2 couriers further includes determining if the courier delivers to a second address, the  
3 second address corresponding to the collection point.

1           10.      The method of claim 1, further comprising  
2 prior to locating the collection point, selecting a range of delivery times for the item.

1           11.      The method of claim 10, wherein the range of delivery times are within a  
2 single day.

1           12.      The method of claim 11, wherein the range of delivery times comprises  
2 three or fewer consecutive hours.

1           13.      The method of claim 12, wherein the single day is identical to a day when  
2 the item is ordered.

1           14.      The method of claim 12, wherein identifying the collection point further  
2 includes determining if the collection point is available for delivery during the range of  
3 delivery times.

1           15.      A product delivery system comprising:  
2                   an e commerce portal, the e commerce comprising a first computer  
3 network coupled to the Internet which allows goods to be ordered via the Internet;

4 a courier database listing a plurality of couriers, the courier database in  
5 communication with the e commerce network via a data link;  
6 a plurality of collection points, each of the plurality of collection points  
7 including a plurality of automated lockers, wherein the plurality of collection points have  
8 distinct geographical locations and each of the plurality of collection points includes a  
9 central server in communication with the e commerce portal via the Internet;  
10 a collection point database, the collection point database in communication  
11 with the e commerce network via the Internet, the collection point database containing a  
12 plurality of collection point records, each of the plurality of collection point records  
13 including  
14 a first collection point field indicating a collection point from the  
15 plurality of collection points,  
16 a second collection point field indicating a location for the  
17 collection point.

1 16. The product delivery system of claim 15, wherein the courier database  
2 further includes a plurality of courier records, each of the plurality of courier records  
3 further including  
4 a first courier field indicating a courier from the plurality of couriers,  
5 a second courier field including a unique identifier for the courier.

1 17. The product delivery system of claim 16, wherein each locker in the  
2 plurality of lockers includes a keypad in communication with the central server.

1 18. The product delivery system of claim 17, wherein the data link comprises a  
2 local area network medium.

1 19. The product delivery system of claim 17, wherein the data link comprises  
2 the Internet.

1 20. The product delivery system of claim 17, wherein each locker includes a  
2 local memory, the local memory in communication with the keypad and the central server.

1 21. The product delivery system of claim 20, wherein the courier database is  
2 replicated on the local memory.

22. The product delivery system of claim 20, wherein each locker includes an automated lock, such that access to the locker is restricted by the automated lock.

23. The product delivery system of claim 20, wherein each locker includes a microcontroller affixed to the locker, such that the local memory is resident on the microcontroller, and the microcontroller is in communication with the central server, such that the microcontroller is operably coupled to the automated lock.

24. The product delivery system of claim 22, wherein each locker includes a transponder affixed to the locker, the transponder in communication with the microcontroller.

25. The product delivery system of claim 22, wherein each locker is coupled to a bar code scanner, the bar code scanner in communication with the microcontroller.

26. The product delivery system of claim 25, wherein the plurality of lockers has a plurality of physical configurations.

27. A method of processing a web-based order for a consumer product, wherein the consumer product is ordered by a user via a web client from an e commerce web portal, and the consumer product is to be delivered to a collection point from a plurality of collection points, the collection points having geographically diverse locations, the method comprising:

receiving the order from the client for the item, wherein the order is received from the web client by a first server at the web portal;

identifying an first geographic address, the first geographic address corresponding to a residence of the user;

identifying a collection point for the delivery of the consumer product, wherein the collection point is selected from a collection point database, such that the collection point has a second geographical address, the second geographical address being within a pre-determined proximity of the first geographical address;

searching a courier database for a plurality of couriers which deliver to the second geographical address;

for each courier of the plurality of couriers, determining a price for delivery of the item to the second geographical address by the courier;  
displaying a shipping options web page at the web client, the shipping options web pages listing the price for delivery of the item for each courier of the plurality of couriers.

28. The method of claim 27, wherein identifying the first geographical address includes searching a cookie on the web client, wherein the first geographical address is encoded in the cookie.

29. The method of claim 27, wherein identifying the first geographical address includes receiving the first geographical address by the first server at the web portal from a form on the web client.

30. The method of claim 27, wherein identifying the collection point further includes searching a collection point database for the collection point.

31. The method of claim 30, wherein the collection point database is in communication with the web portal via the Internet.

32. The method of claim 30, wherein the collection point database is located on a second server at the web portal.

33. The method of claim 30, wherein the courier database is located remotely from the web portal and the collection point database, such that the web portal and the collection point database are in communication with the courier database via the Internet.

34. The method of claim 27, further comprising:  
after displaying the shipping options web page, receiving an identifier for a courier from the plurality of couriers at the web portal from the web client.

35. The method of claim 34, further comprising:  
after receiving the identifier, scheduling a delivery for the item to the second geographical address by the identified courier.

1           36.     The method of claim 35, wherein the collection point includes a plurality of  
2 lockers, such that at least one locker in the plurality of lockers has dimensions sufficient to  
3 accommodate the item.

1           37.     In an e-commerce computer network system accessible via the Internet, a  
2 method of arranging delivery of an item ordered by a customer from a web browser linked  
3 to the Internet, the method comprising:

4                 receiving a first address from the customer via the web browser, wherein  
5 the address is received by the e commerce computer network from the customer;

6                 locating a collection point for the delivery of the item, the collection point  
7 including a plurality of lockers, the plurality of lockers having a plurality of physical  
8 configurations, locating the collection point further including retrieving a cookie, the  
9 cookie stored locally at the web browser, the cookie identifying the collection point  
10 preferred by the customer;

11                determining if a locker from the plurality of lockers is physically  
12 dimensioned to accommodate the item;

13                determining if the locker is available for delivery of the item at a customer  
14 selected time;

15                selecting a courier from a plurality of couriers listed in a courier database to  
16 deliver the item from a warehouse to the locker at the collection point.

17                sending a string identifier from the e-commerce network system to the  
18 customer via the web client, the string identifier indicating a password for entry to the  
19 locker.

1           38.     The method of claim 37, wherein the collection point has a second address,  
2 the second address being distinct from the first address.

1           39.     The method of claim 37, wherein selecting the courier further includes  
2                 dynamically generating a plurality of prices for delivering the item  
3 to the collection point by the plurality of couriers.

1           40.     The method of claim 39, wherein the courier has a lowest price from the  
2 plurality of prices.

1           41.     The method of claim 37, wherein the courier database includes a record for  
2 each courier in the plurality of couriers.

1           42.     The method of claim 41, wherein for each courier, the record indicates  
2 whether the courier delivers to the collection point.

1           43.     The method of claim 42, wherein selecting the courier further includes  
2 determining that the courier delivers to the collection point.

1           44.     The method of claim 37, wherein the string identifier identifies the courier.

1           45.     The method of claim 37, wherein the string identifier is a dynamically  
2 generated password.

1           46.     The method of claim 37, wherein each of the plurality of lockers is  
2 operated by a microcontroller, and each of the plurality of lockers has an automated lock  
3 coupled to the microcontroller.

1           47.     The method of claim 46, wherein each of the plurality of plurality of  
2 lockers is coupled to a keypad, such that the keypad is in communication with the  
3 microcontroller.

1           48.     The method of claim 47, further comprising:  
2 receiving the item at the locker from the delivery company;  
3 after receiving the item at the locker, locking the locker.

1           49.     The method of claim 48, further comprising:  
2 after locking the locker, receiving a key sequence from the keypad;  
3 sending the key sequence from the keypad to the microcontroller.

1           50.     The method of claim 49, further comprising:  
2 after sending the key sequence, comparing the key sequence to the  
3 string identifier in the microcontroller.

1           51.     The method of claim 50 further comprising:  
2                     if the key sequence matches the string identifier, sending a message  
3     from the microcontroller to the automated lock to release the automated lock;  
4                     receiving the unlocking message at the automated lock;  
5                     in response to receiving the automated message, releasing the  
6     automated lock.

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80  
81  
82  
83  
84  
85  
86  
87  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99  
100  
101  
102  
103  
104  
105  
106  
107  
108  
109  
110  
111  
112  
113  
114  
115  
116  
117  
118  
119  
120  
121  
122  
123  
124  
125  
126  
127  
128  
129  
130  
131  
132  
133  
134  
135  
136  
137  
138  
139  
140  
141  
142  
143  
144  
145  
146  
147  
148  
149  
150  
151  
152  
153  
154  
155  
156  
157  
158  
159  
160  
161  
162  
163  
164  
165  
166  
167  
168  
169  
170  
171  
172  
173  
174  
175  
176  
177  
178  
179  
180  
181  
182  
183  
184  
185  
186  
187  
188  
189  
190  
191  
192  
193  
194  
195  
196  
197  
198  
199  
200  
201  
202  
203  
204  
205  
206  
207  
208  
209  
210  
211  
212  
213  
214  
215  
216  
217  
218  
219  
220  
221  
222  
223  
224  
225  
226  
227  
228  
229  
230  
231  
232  
233  
234  
235  
236  
237  
238  
239  
240  
241  
242  
243  
244  
245  
246  
247  
248  
249  
250  
251  
252  
253  
254  
255  
256  
257  
258  
259  
260  
261  
262  
263  
264  
265  
266  
267  
268  
269  
270  
271  
272  
273  
274  
275  
276  
277  
278  
279  
280  
281  
282  
283  
284  
285  
286  
287  
288  
289  
290  
291  
292  
293  
294  
295  
296  
297  
298  
299  
300  
301  
302  
303  
304  
305  
306  
307  
308  
309  
310  
311  
312  
313  
314  
315  
316  
317  
318  
319  
320  
321  
322  
323  
324  
325  
326  
327  
328  
329  
330  
331  
332  
333  
334  
335  
336  
337  
338  
339  
340  
341  
342  
343  
344  
345  
346  
347  
348  
349  
350  
351  
352  
353  
354  
355  
356  
357  
358  
359  
360  
361  
362  
363  
364  
365  
366  
367  
368  
369  
370  
371  
372  
373  
374  
375  
376  
377  
378  
379  
380  
381  
382  
383  
384  
385  
386  
387  
388  
389  
390  
391  
392  
393  
394  
395  
396  
397  
398  
399  
400  
401  
402  
403  
404  
405  
406  
407  
408  
409  
410  
411  
412  
413  
414  
415  
416  
417  
418  
419  
420  
421  
422  
423  
424  
425  
426  
427  
428  
429  
430  
431  
432  
433  
434  
435  
436  
437  
438  
439  
440  
441  
442  
443  
444  
445  
446  
447  
448  
449  
450  
451  
452  
453  
454  
455  
456  
457  
458  
459  
460  
461  
462  
463  
464  
465  
466  
467  
468  
469  
470  
471  
472  
473  
474  
475  
476  
477  
478  
479  
480  
481  
482  
483  
484  
485  
486  
487  
488  
489  
490  
491  
492  
493  
494  
495  
496  
497  
498  
499  
500  
501  
502  
503  
504  
505  
506  
507  
508  
509  
510  
511  
512  
513  
514  
515  
516  
517  
518  
519  
520  
521  
522  
523  
524  
525  
526  
527  
528  
529  
530  
531  
532  
533  
534  
535  
536  
537  
538  
539  
540  
541  
542  
543  
544  
545  
546  
547  
548  
549  
550  
551  
552  
553  
554  
555  
556  
557  
558  
559  
560  
561  
562  
563  
564  
565  
566  
567  
568  
569  
570  
571  
572  
573  
574  
575  
576  
577  
578  
579  
580  
581  
582  
583  
584  
585  
586  
587  
588  
589  
590  
591  
592  
593  
594  
595  
596  
597  
598  
599  
600  
601  
602  
603  
604  
605  
606  
607  
608  
609  
610  
611  
612  
613  
614  
615  
616  
617  
618  
619  
620  
621  
622  
623  
624  
625  
626  
627  
628  
629  
630  
631  
632  
633  
634  
635  
636  
637  
638  
639  
640  
641  
642  
643  
644  
645  
646  
647  
648  
649  
650  
651  
652  
653  
654  
655  
656  
657  
658  
659  
660  
661  
662  
663  
664  
665  
666  
667  
668  
669  
670  
671  
672  
673  
674  
675  
676  
677  
678  
679  
680  
681  
682  
683  
684  
685  
686  
687  
688  
689  
690  
691  
692  
693  
694  
695  
696  
697  
698  
699  
700  
701  
702  
703  
704  
705  
706  
707  
708  
709  
710  
711  
712  
713  
714  
715  
716  
717  
718  
719  
720  
721  
722  
723  
724  
725  
726  
727  
728  
729  
730  
731  
732  
733  
734  
735  
736  
737  
738  
739  
740  
741  
742  
743  
744  
745  
746  
747  
748  
749  
750  
751  
752  
753  
754  
755  
756  
757  
758  
759  
760  
761  
762  
763  
764  
765  
766  
767  
768  
769  
770  
771  
772  
773  
774  
775  
776  
777  
778  
779  
780  
781  
782  
783  
784  
785  
786  
787  
788  
789  
790  
791  
792  
793  
794  
795  
796  
797  
798  
799  
800  
801  
802  
803  
804  
805  
806  
807  
808  
809  
810  
811  
812  
813  
814  
815  
816  
817  
818  
819  
820  
821  
822  
823  
824  
825  
826  
827  
828  
829  
830  
831  
832  
833  
834  
835  
836  
837  
838  
839  
840  
841  
842  
843  
844  
845  
846  
847  
848  
849  
850  
851  
852  
853  
854  
855  
856  
857  
858  
859  
860  
861  
862  
863  
864  
865  
866  
867  
868  
869  
870  
871  
872  
873  
874  
875  
876  
877  
878  
879  
880  
881  
882  
883  
884  
885  
886  
887  
888  
889  
890  
891  
892  
893  
894  
895  
896  
897  
898  
899  
900  
901  
902  
903  
904  
905  
906  
907  
908  
909  
910  
911  
912  
913  
914  
915  
916  
917  
918  
919  
920  
921  
922  
923  
924  
925  
926  
927  
928  
929  
930  
931  
932  
933  
934  
935  
936  
937  
938  
939  
940  
941  
942  
943  
944  
945  
946  
947  
948  
949  
950  
951  
952  
953  
954  
955  
956  
957  
958  
959  
960  
961  
962  
963  
964  
965  
966  
967  
968  
969  
970  
971  
972  
973  
974  
975  
976  
977  
978  
979  
980  
981  
982  
983  
984  
985  
986  
987  
988  
989  
990  
991  
992  
993  
994  
995  
996  
997  
998  
999  
1000